

352-709

05/23/2007

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAY 23 2007

Mr. Ambrose
Dupont Crop Protection
Stine-Haskell Research Center
P.O. Box 30
Newark, DE 19714-0030

Subject: Cotoran 4L
EPA Registration Number 352-709
Resubmission dated April 5, 2007
Emailed label dated May 8, 2007

Dear Mr. Ambrose:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

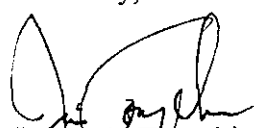
- 1) In the section PRECAUTIONARY STATEMENTS move the statement "Avoid contact with eyes, skin or clothing" to directly following "Caution!"
- 2) On page 3, add "To the extent consistent with applicable law" before "DuPont will not be held responsible for losses or damage resulting from such uses."
- 3) On page 3, revise the plantback interval of "6 months for all other crops not listed above" to "9 months for all other crops not listed above."
- 4) On page 3, revise the statement "Applicators must follow all state and local pesticide drift requirements regarding application of Cotoran 4L" to "Applicators must follow all state and local pesticide drift requirements regarding application of products containing the active ingredient fluometuron."
- 5) On page 3, revise the statement "Consult tank mix product labels for specific rate recommendations" to "Consult tank mix product labels for specific rate instructions."
- 6) Revise the statement "Before apply Cotoran 4L refer to Table #1 in the Precautions section for specific application soil restrictions" to "Before apply Cotoran 4L refer to Table #1 in the Precautions section for specific application rate soil restrictions." This statement occurs multiple times on the label- revise the statement everywhere it occurs.
- 7) On page 4, revise the plant back interval for "all other crops not listed above" from 6 months to 9 months.
- 8) On page 4, in the section COMBINATIONS in the first paragraph revise "is recommended" to "can be used."

- 9) On page 4, add "To the extent consistent with applicable law" before the statement "Dupont will not be held responsible for losses or damage resulting from such uses."
- 10) On page 4, remove "or gin trash" from the statement "Note: Do not feed treated forage or gin trash to livestock, or graze treated areas."
- 11) On page 5, replace the word "recommended" with "instructed" in both instances in the second paragraph below the table.
- 12) On page 5, remove "or gin trash" from the statement "Do not graze treated areas or feed treated forage or gin trash to livestock."
- 13) On page 7, revise the heading "PESTICIDE STORAGE AND DISPOSAL STORAGE AND DISPOSAL" to "STORAGE AND DISPOSAL"
- 14) On page 7, add the statement "Do not contaminate water, food, or feed by storage or disposal" directly after the amended heading "STORAGE AND DISPOSAL"

Submit one (1) copy of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,



James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)



DuPontTM Cotoran[®] 4L

herbicide

For Weed Control in Cotton

Active Ingredients *	By Weight
Fluometuron: 1,1-dimethyl-3-(a,a,a-trifluoro-m-tolyl) urea	41.7%
Inert Ingredients	58.3%
TOTAL	100.0%

*COTORAN[®] 4L Contains 4 Pounds Active Ingredient Per Gallon

EPA Reg. No. 352-709

EPA Est. No. _____

Net Weight _____

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

Note to Physician: If COTORAN[®] 4L is ingested, lavage stomach or induce vomiting. A slurry of activated charcoal in water can be left in the stomach. Give a saline laxative and supportive therapy.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 352-709

MAY 23 2007

ACCEPTED
with COMMENTS
in EPA Letter Dated

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution! Harmful if absorbed through skin, swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are polyethylene or polyvinyl chloride. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

Mixers and loaders supporting aerial application must wear:

- coveralls over long-sleeved shirt and long pants,
- chemical-resistant gloves,
- chemical-resistant footwear and socks, and
- a chemical-resistant apron.

All other mixers, loaders, applicators, flaggers, and other handlers must wear:

- long-sleeved shirt,
- long pants,
- shoes and socks, and
- chemical-resistant gloves (except applicators and flaggers)

See engineering controls for additional requirements and options.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls Statement: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Enclosed Cockpits for Aerial Applicators Engineering Controls: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/ PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This chemical is known to leach through soil into ground water under certain conditions, as a result of registered uses. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls, worn over a short-sleeved shirt and short pants,
- Chemical Resistant Gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Chemical-resistant footwear plus socks, and
- Protective eyewear.

GENERAL INFORMATION

DuPont™ COTORAN® 4L is effective for both annual grass and annual broadleaf weed control in cotton.

Weed Control

COTORAN® 4L applied according to directions will selectively control annual weeds in cotton, such as:

Annual Grass Weeds

Barnyardgrass	Foxtail
Crabgrass	Goosegrass
Crowfootgrass	Ryegrass
Fall Panicum	Signalgrass (Brachiaria)

Annual Broadleaf Weeds

Buttonweed	Pigweed
Cocklebur	Prickly Sida (teaweed)
Florida Pusley	Purslane
Groundcherry (Wright)	Ragweed
Jimsonweed	Sesbania
Lambsquarters	Sicklepod
Marestail (Horseweed)	Smartweed
Morningglory	Tumbleweed

COTORAN® 4L at rates up to 4 pints per acre in cotton is not effective for the control of established perennial weeds, such as johnsongrass, from rhizomes.

COTTON

DuPont™ COTORAN® 4L may be applied preplant, preemergence, or postemergence. For preplant and preemergence treatment only, COTORAN® 4L may be tank-mixed with most liquid nitrogen fertilizers. COTORAN® 4L may be combined with other herbicides in cotton as directed in the Combinations section.

Precautions

The use of COTORAN® 4L preplant or preemergence in conjunction with a soil applied organophosphate insecticide at planting may result in injury to cotton. In addition, COTORAN® 4L applied to cotton with any application of "Command" (clomazone) herbicide may result in crop injury. DuPont will not be held responsible for losses or damage resulting from such uses.

The second application of COTORAN® 4L cannot be made earlier than 20 days following the initial application.

Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of COTORAN® 4L; where dry weather conditions prevail, the herbicidal activity of COTORAN® 4L may be delayed or reduced. Cultivate if weeds develop.

Do not make more than two applications of COTORAN® 4L to the same crops or field in any 1 year. Do not plant crops other than cotton after the last application of COTORAN(r) 4L, without following the plantback intervals, or injury may result:

Plantback intervals for the following crops in areas other than AZ and NM are:

- 3 months for wheat
- 8 months for field corn, sweet corn, and peanuts
- 9 months for rice, grain sorghum, and soybeans
- 6 months for all other crops not listed above

Do not apply within 60 days of harvest. Do not feed foliage from treated cotton plants or to livestock.

Table #1: Application Soil Restrictions

Broadcast Rates Per Pints Per Acre of COTORAN® 4L and Active Ingredient Equivalent

Soil Texture	Maximum One-Time Application Rate	Annual Maximum Number of Application Per Year	Annual Maximum Application Rate
Sand, loamy sand, and sandy loam soils	2 pts. (1 lb ai/A)	2	4 pts. (2 lb ai/A)
Loam, silt loam, silt, sandy clay loam, silty clay loam, and clay loam soils	3.2 pts. (1.6 lb ai/A)	2	6 pts. (3 lb ai/A)
Sandy clay, silty clay, and clay soils	4 pts. (2 lb ai/A)	2	6 pts. (3 lb ai/A)

* All Soils - Require a 20-day interval between applications.

Other State and Local Requirements:

Applicators must follow all state and local pesticide drift requirements regarding application of COTORAN® 4L. Where states have more stringent regulations, they must be observed. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

AR, LA, and MS only: Use 1.6 pints of COTORAN® 4L per acre on sandy loam soils low in organic matter.

AZ and NM only: Cotton, corn, and grain sorghum can be planted the next spring. Do not plant treated areas to other crops until 1 year after last application. Do not use on sandy or coarse-textured soil of less than 1% organic matter.

West TX only: Do not use COTORAN® 4L on sandy, loamy sand, or fine sandy loam soils. Do not use COTORAN® 4L on cotton planted in furrows.

Preplant Treatment (except AZ and NM)

COTORAN® 4L may be applied for burndown of existing annual weeds and residual control of weeds prior to planting cotton. Apply COTORAN® 4L at a rate of 2 to 4 pints per acre from 15 to 75 days prior to anticipated planting. On light silt and sandy soils, low in organic matter, use the lower rate. Apply before weeds germinate or before weed seedlings are more than 2 inches tall. If weeds are emerged prior to application, the addition of a surfactant is recommended. When emerged weeds are taller than 2 inches or weeds not listed on the COTORAN® 4L label are present, COTORAN® 4L may be tank mixed with other products registered for preplant applications in cotton. Consult tank mix product labels for specific rate recommendations and precautions. Early preplant applications may require additional weed control before planting. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

Preemergence applications of herbicides with a similar mode of action (such as diuron) following a preplant application of COTORAN® 4L may result in cotton injury. This is most critical where applications of COTORAN® 4L are made less than 30 days preplant, on coarse textured soils, and on soils low in organic matter.

Marestail (Horseweed): For improved residual control of marestail, apply a preplant burndown tank mix of glyphosate plus Clarity plus COTORAN® 4L or Ignite plus COTORAN® 4L.

Preplant Incorporated Use (AZ and NM)

COTORAN® 4L may be applied preplant as a broadcast spray at 3.2 pints per acre after the beds for preplant irrigation have been formed. Apply before the beds are dragged off (using a bed shaper set to remove 1 to 2 inches from beds) in preparation for planting. Furrow irrigation should precede the application and planting should follow as soon as possible. Plant into untreated soil after drag-off and return treated soil to the beds when furrows are reformed. Do not allow furrow irrigation water to pond over the beds. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

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Preemergence Treatment

Apply DuPont™ COTORAN® 4L at a rate of 2 to 4 pints per acre. On light silt and sandy soils, low in organic matter, use the lower rate. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

Plantback intervals must be as follows:

- 3 months for wheat
- 8 months for field corn, sweet corn, peanuts
- 9 months for rice, grain sorghum, and soybeans
- 6 months for all other crops not listed above.

Postemergence Treatments

COTORAN® 4L may be applied postemergence to cotton, but preemergence to weeds, or postemergence to both cotton and weeds. COTORAN® 4L should be applied at rates of 2 to 4 pints per acre. Apply as a directed, semi-directed, or over-the-top spray. COTORAN® 4L may be applied to cotton plants at any stage of growth from 3 inches high to lay-by. Use the higher rate when applying postemergence to weeds; weeds should be 2 inches high or less. Use of a surfactant that is approved by FDA for use on food and feed crops and is compatible with COTORAN® 4L when applied to cotton, may enhance the postemergence herbicidal activity of COTORAN® 4L. The surfactant rate should not exceed 0.5% of the carrier volume (1 pint per 25 gallons of water). Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

COMBINATIONS

DuPont™ STAPLE® LX: A program of STAPLE® LX at 1.3 - 2.1 fl oz /A plus COTORAN® 4L at 2 to 4 pints per acre applied preemergence followed by STAPLE® LX early postemergence is recommended for improved control of bristly starbur, coffee senna, common ragweed, Florida beggarweed, hemp sesbania, jimsonweed, ladysthumb smartweed, lambsquarter, annual morningglory (cypressvine, entireleaf, ivyleaf, pitted, purple, red/scarlet, sharpod/cotton, smallflower) Pennsylvania smartweed, pigweed (redroot, smooth, spiny), prickly sida, spotted spurge, spurred anoda, velvetleaf and for suppression of palmer pigweed. On light silt and sandy soils, low in organic matter, use the lower rate. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

Specific Weed Problems (Sicklepod, Wild Poinsettia, Yellow Nutsedge): For improved control of the above weeds and other labeled weeds that often occur in high populations and/or have multiple seasonal flushes, a program of DuPont™ STAPLE® LX at 1.7 - 2.1 fl oz /A plus COTORAN® 4L at 2 to 4 pints per acre applied preemergence followed by a postemergence application of STAPLE® LX alone or in combination with MSMA or DSMA is recommended. On light silt and sandy soils, low in organic matter, use the lower rate. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

“Dual Magnum”: Use in a tank mixture with COTORAN® 4L preemergence in cotton for control of all weeds as listed on both labels. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from the following table.

COTORAN® 4L + “Dual Magnum” - Cotton

Broadcast Rates Per Acre

Soil Texture	COTORAN® 4L (pts.)	“Dual Magnum” (pts.)	
		Area 1*	Area 2**
Sand, loamy sand		DO NOT USE	
Sandy loam	2	0.5 - 1.0	0.8 - 1.0
Loam, silt loam, silt	2 - 3.2	0.66 - 1.33	1.0 - 1.33
Fine soil	3.2 - 4	1.0 - 1.33	1.33

*Area 1 = AR, LA, MS, Bootheel of MO and TN

**Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX

Precautions: (1) Do not apply COTORAN® 4L + “Dual Magnum” on sand or loamy sand soils or in areas where water is likely to “pond” over the bed, or crop injury may occur. (2) Do not apply broadcast to furrow-planted cotton. (3) The use of COTORAN® 4L preplant or preemergence in conjunction with a soil applied organophosphate insecticide at planting may result in injury to cotton. In addition, COTORAN® 4L applied to cotton with any application of “Command” (clomazone) herbicide may result in crop injury. DuPont will not be held responsible for losses or damage resulting from such uses. (4) Do not use on Taloka silt loam, or crop injury may occur. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

Refer to the “Dual Magnum” label for further instructions, precautions, and limitations.

Note: Do not feed treated forage or gin trash to livestock, or graze treated areas.

Rotational Crops: Refer to the crop rotation instructions for COTORAN® 4L alone on this label and for “Dual Magnum” alone on the “Dual Magnum” label.

“Treflan”: Use in a tank mixture with COTORAN® 4L (all areas except AZ) or before an overlay with COTORAN® 4L in cotton for control of all weeds listed on both labels.

For the tank mixture, follow soil preparation and incorporation procedures for “Treflan”. Apply COTORAN® 4L + “Treflan” tank mix at rates specified below in a minimum of 15 gallons of water per acre.

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DuPont™ COTORAN® 4L + "Treflan" Tank Mixture - Cotton (All areas except AZ)

Soil Texture	Broadcast Rates Per Acre	
	COTORAN® 4L	"Treflan"
Sand, Loamy sand, Sandy loam	2 pts	1 pt
Loam, Silty clay loam*, Silt loam, Silt, Sandy clay loam*	3.2 pts	1.5 pts
Clay, clay loam, Silty clay loam*, Silty clay, Sandy clay, Sandy clay loam*	4 pts	2 pts

*Silty clay loam and sandy clay loam are transitional soils. If these soils are predominantly sand or silt, they are usually classified as medium-textured soils. If predominantly clay, they are classified as fine-textured soils.

For the overlay, apply COTORAN® 4L as a preemergence soil surface treatment as recommended on this label at 2 to 4 pints per acre after a preplant soil incorporated treatment of "Treflan". Apply "Treflan" as recommended on its label at 1 to 2.5 pints per acre.

Precautions: Do not use the tank mix in AZ. Do not apply the tank mix of COTORAN® 4L + "Treflan" in liquid fertilizer. Refer to the "Treflan" label for directions, precautions, and limitations for use of that product, as well as the directions, precautions, and limitations on this COTORAN® 4L label. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

"Prowl": Apply COTORAN® 4L as a preemergence surface treatment as recommended on this label at 2 to 4 pints per acre after a preplant treatment of "Prowl" for control of all weeds listed on both labels. Refer to the "Prowl" label for directions, precautions, and limitations for use of that product.

DSMA or MSMA: COTORAN® 4L may be tank-mixed with DSMA or MSMA and applied as a directed spray to cotton from 3 inches high to first bloom. Use the broadcast rate of 2 to 4 pints of COTORAN® 4L per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pint/25 gallons) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with COTORAN® 4L + DSMA or COTORAN® 4L + MSMA when applied to cotton. When using this mixture, do not allow spray to contact cotton foliage. Do not graze treated areas or feed treated forage or gin trash to livestock. Adhere strictly to the dosage, precautions, and limitations of the labels of the products. Before applying COTORAN® 4L refer to Table #1 in the Precautions section for specific application soil restrictions.

APPLICATION PROCEDURES

Mixing Instructions

(1) Fill spray tank 1/2 to 3/4 full with clean water or nitrogen solution. (2) Start agitation. (3) Pour COTORAN® 4L directly from the container into the partially filled spray tank. (4) If COTORAN® 4L is to be tank-mixed with another herbicide, add that product after the COTORAN® 4L is thoroughly mixed in the partially filled spray tank. (5) Add the rest of the water or nitrogen solution. (6) Provide agitation during mixing and application to maintain a uniform suspension.

To determine compatibility, add 2 teaspoons of COTORAN® 4L to 1 pint of nitrogen solution (equals 4 pints in 25 gallons; if using other application rates, adjust compatibility test amounts proportionally). Stir or shake thoroughly. Let stand 5 minutes. If it remains mixed or can be remixed readily, the mixture is compatible and can be used. If COTORAN® 4L settles out when mixed with a nitrogen solution, a suspensibility agent, such as "Complex", "Unite", or equivalent at 1 to 3 pints per 100 gallons of fertilizer, may improve compatibility. Add 1/8 to 3/8 teaspoon of "Unite" to the compatibility test to determine its effectiveness.

Equipment

Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials, as crop damage or sprayer clogging may result.

All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. Use properly calibrated conventional spray equipment that will apply spray uniformly and has hydraulic or mechanical agitation, except in Arizona where only mechanical agitators are recommended. Screens in nozzles, in suction, and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension. Avoid leaving spray mixture in tank without constant agitation. If bypass agitation is used, it should terminate at the bottom of the tank to minimize foaming. Wash sprayer thoroughly with clean water immediately after use.

Apply in a minimum of 10 gallons per acre for preplant incorporated or preemergence applications, or apply in a minimum of 20 gallons per acre for postemergence application.

Band Treatment

For band treatment, calculate the amount of COTORAN® 4L needed by the formula:

$$\frac{\text{band width (inches)}}{\text{row width (inches)}} \times \frac{\text{broadcast rate}}{\text{acre}} = \text{amount needed per acre of field}$$

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Importance of Droplet Size

Apply as a medium or coarser spray (ASAE standard 572). The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity, and Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter - longer booms increase drift potential.
- **Application Height** - Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

- When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

Boom Height

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

Wind Speed

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.** Do not apply at wind speeds greater than 15 mph.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

Sensitive Areas

DuPont™ COTORAN® 4L should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from sensitive areas).

PESTICIDE STORAGE AND DISPOSAL STORAGE AND DISPOSAL

Pesticide Storage: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Pesticide Disposal: Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **For Fiber Sacks:** Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **For Fiber Drums With Liners:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner. **For Bags Containing Water Soluble Packets:** Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by open burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple-rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above. **For Metal Containers (non aerosol):** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **For Paper and Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than DuPont™ COTORAN® 4L. Reseal and return the container to any authorized DuPont refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

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Container Disposal for Bulk Containers: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact DuPont at 1-800-441-3637. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

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